

Ophthalmic optics — Spectacle frames electronic catalogue and identification — Part 2: Commercial Information

Optique ophtalmique — Catalogue de monture de lunettes et identification — Partie 2: Information commerciale

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 10685-1 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

ISO 10685 consists of the following parts, under the general title *Ophthalmic optics — Spectacle frames electronic catalogue and identification*:

- *Part 1: Product identification and electronic catalogue product hierarchy*
- *Part 2: Commercial information*
- *Part 3: Technical Information*

Ophthalmic optics — Spectacle frames electronic catalogue and identification — Part 2: Commercial Information

1 Scope

The scope of this document is:

1. to define commercial information and file format used for trading spectacle frames and sunglass frames.

Note: Scope includes sunglass clip-ons.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10685-1, *Ophthalmic optics — Spectacle frames electronic catalogue and identification — Part 1: Product Identification and electronic catalogue product hierarchy*

ISO 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

ISO 16284, *Ophthalmic optics — Information interchange for ophthalmic optical equipment*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Commercial Information

Information needed to order frames and sunglasses.

3.2 Decimal Length

The decimal lengths listed do not include the decimal point.

3.3 Signed Decimal Length

The signed decimal lengths listed do not include the decimal point or the sign.

4 Symbols (and abbreviated terms)

4.1 MSRP

MSRP is the abbreviation of manufacturer suggested retail price.

5 Commercial Information

5.1 Identification

Any commercial information requires the appropriate frame identification as described in ISO 10685 – 1.

5.2 Commercial data for frames item catalogue

The following tables define the fields used to identify the Commercial Information portion of the Electronic Frame Item Catalogue (Table 1 and Table 2). Additional information and examples are available in Annex A.

- The “name” column defines the tag and attribute names within the XML file (see Annex B for schema definition)
- The “O/M” column indicates whether a field is optional (O) or mandatory (M)
- The “format” column indicates the data type eg: TEXT
- The “length” column indicates the field character length
- The “description” column is the description of the field.

Table 1 — Spectacle Frame Information for the Commercial Portion of the Electronic Frame Catalogue

NAME	O/M	FORMAT	LENGTH	DESCRIPTION
Usrtype	M	TEXT	1	TYPE OF USER
Usecod	O	TEXT	1	TYPE OF USE
Sdtpl	O	DATE	10	START DATE OF THE APPLICABLE WHOLESALE PRICE
Edtpl	O	DATE	10	END DATE OF THE APPLICABLE WHOLESALE PRICE
Prc	O	DECIMAL	Max 13	WHOLESALE PRICE
Msrpsdtpl	O	DATE	10	START DATE OF M.S.R.P PRICELIST
Msrpdtpl	O	DATE	10	END DATE OF M.S.R.P. PRICE
Msrp	O	DECIMAL	Max 13	MANUFACTURER SUGGESTED RETAIL PRICE
Image	O	TEXT	Max 50	NAME OF IMAGE FILE
Mcoldes	O	TEXT	Max 50	MANUFACTURER COLOUR DESCRIPTION
Nrf	O	INTEGER	Max 3	NRF CODE OR SUBSET OF NRF CODE FOR COLOUR
Fmtyp	O	TEXT	1	FRAME TYPE AS IT RELATES TO LENS MOUNTING
Mat	M	TEXT	1	MAIN MATERIAL
Jntspg	O	BOOLEAN	1	JOINT SPRING
Aspec	O	TEXT	Max 100	ADDITIONAL SPECIFICATIONS OF THE FRAME
Shapes	O	TABLE		SEE TABLE 3.

Table 2 — Sunglass Frame Information for the Commercial Portion of the Electronic Frame Catalogue

NAME	O/M	FORMAT	LENGTH	DESCRIPTION
Usrtype	M	TEXT	1	TYPE OF USER
Usecod	O	TEXT	1	TYPE OF USE
Sdtpl	O	DATE	10	START DATE OF THE APPLICABLE WHOLESALE PRICE
Edtpl	O	DATE	10	END DATE OF THE APPLICABLE WHOLESALE PRICE
Prc	O	DECIMAL	Max 13	WHOLESALE PRICE
Msrsdtp	O	DATE	10	START DATE OF M.S.R.P. PRICELIST
Msredtp	O	DATE	10	END DATE OF M.S.R.P. PRICE
Msrp	O	DECIMAL	Max 13	MANUFACTURER SUGGESTED RETAIL PRICE
Image	O	TEXT	Max 50	NAME OF IMAGE FILE
Mcoldes	O	TEXT	Max 50	MANUFACTURER COLOUR DESCRIPTION
Nrf	O	INTEGER	Max 3	NRF CODE OR SUBSET OF NRF CODE FOR COLOUR
Fmty	O	TEXT	1	FRAME TYPE AS IT RELATES TO LENS MOUNTING
Mat	M	TEXT	1	MAIN MATERIAL
Jntspg	O	BOOLEAN	1	SPRING JOINT
Aspec	O	TEXT	Max 100	ADDITIONAL SPECIFICATIONS OF THE SUNGLASS
Lsbcurv	O	DECIMAL	Max 4	LENS BASE CURVE
Ldes	O	TEXT	Max 50	LENS DESCRIPTION INCLUDING COLOURS AND RELATED PROPERTIES
Ctyp	O	TEXT	Max 50	CATEGORY OF THE LENS (CEN IN EUROPE, AS/NZS IN AUSTRALIA, ANSI IN USA)
Rtyp	O	TEXT	Max 100	RESTRICTION OF THE LENS
Fity	O	TEXT	1	FILTRATION TYPE OF THE LENS

Table 3 – Rimless Shapes

This table is repeatable. There can be multiple shapes for a rimless frame.

NAME	O/M	FORMAT	LENGTH	DESCRIPTION
Shpid	M	INTEGER	Max 14	SHAPE ID
Shpdesc	O	TEXT	Max 50	SHAPE DESCRIPTION
Shpimage	O	TEXT	Max 50	SHAPE IMAGE FILE LINK

For sample XML file, see Annex C

Annex A (normative)

Field descriptions

The following table contains detailed field descriptions and examples for the electronic frame catalogue.

Table A.1 — Field of descriptions and examples for the electronic frame catalogue

NAME	EXAMPLE	COMMENTS/CODIFICATION	Additional comments	ebXML Mapping
Usrtype	B	A – man, B – woman, C – child, D – unisex	Manufacturer code to define gender type of frame.	ReferencedOpticProduct → DesignatedOpticProductClassification → ApplicableOpticProductCharacteristic
Usecod	A	A – standard, B – sport		ReferencedOpticProduct → DesignatedOpticProductClassification → ApplicableOpticProductCharacteristic
Sdtpl	1997-07-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ssTZD	An indication the manufacturer has a price change and the date effective	ApplicableOpticTradeAgreement → ValidityDelimitedPeriod
Edtpl	1997-10-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ssTZD	An indication the manufacturer has a price change and the date it is no longer effective	ApplicableOpticTradeAgreement → ValidityDelimitedPeriod
Prc	50.00		Wholesale Price of the product	ApplicableOpticTradeAgreement → SpecifiedOpticPriceInformation → AssignedOpticPrice → ChargeAmount
Msrpsdtpl	1997-07-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ssTZD	An indication the manufacturer has an MSRP change and the date effective	ApplicableOpticTradeAgreement --> ValidityDelimitedPeriod
Msrpdtpl	1997-10-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ssTZD	An indication the manufacturer has an MSRP change and the date it is no longer effective	ApplicableOpticTradeAgreement --> ValidityDelimitedPeriod
Msrp	130.00		Manufacturers Suggested Retail Price	ApplicableOpticTradeAgreement → SpecifiedOpticPriceInformation → AssignedOpticPrice → ChargeAmount
Image	ftp://xyz.com		The frame image URL to download the image.	Insert MultimediaPresentationPicture → DigitalImageBinaryObject
Mcoldes	WHITE TRANSPARENT	ISO 16284	Frame Colour Description given by the manufacturer	ReferencedOpticProduct --> ColorDescription
Nrf	205		National Retail Federation Colour Code (needed only for US)	ReferencedOpticProduct --> DesignatedOpticProductClassification --> ApplicableOpticProductCharacteristic
Fmtytp	A	A – rim mount, B – semi-rimless mount, C – rimless mount		ReferencedOpticProduct --> DesignatedOpticProductClassification --> SubClassCode (with ClassCode=FrameClass)

Mat	A	A – Plastic, B – combination, D – metal, Z – Other	Manufacturer to indicate frame main material	ReferencedOpticProduct → ComposedOpticMaterial → ApplicableOpticProductCharacterist ic
Jntspg	true		Defines if the hinge is a spring joint (true) or not (false)	ReferencedOpticProduct --> DesignatedOpticProductClassificati on --> ApplicableOpticProductCharacterist ic
Aspec	Twinned pad		Provide additional information for the differentiation of frames or sunglass (i.e bridge type, temple tip, bridge style, sun lens)	Replace by ReferencedOpticProduct --> DesignatedOpticProductClassifi cation --> ApplicableOpticProductCharact eristic
Lsbcurv	06.00	ISO 13666 XX.XX DIOPTERS	Nominal curvature of the front surface of the lens	ReferencedOpticProduct --> DesignatedOpticProductClassificati on --> ApplicableOpticProductCharacterist ic
Ldes	Brown		The description of the lens colour and related properties	ReferencedOpticProduct --> DesignatedOpticProductClassificati on --> ApplicableOpticProductCharacterist ic
Ctyp	2	EN 1836 for Europe ANSI Z80.3 for US AS/NZS 1067 for Australia	The mandatory category of lens mounted in sunglasses	ReferencedOpticProduct --> ApplicableOpticCENRestriction --> CategoryID
Rtyp	Not suitable for driving and road use	EN 1836 for Europe ANSI Z80.3 for US AS/NZS 1067 for Australia	Restriction on the use of the lens/filter.	ReferencedOpticProduct --> ApplicableOpticCENRestriction --> ID
Fltyp	A	A – Photosensitive lens B – Polarising lens, C – Gradient lens D – Uniform tinted lens E – Photosensitive and Polarizing F – Others	Filtration type of the lens	ReferencedOpticProduct --> DesignatedOpticProductClassificati on --> ApplicableOpticProductCharacterist ic
Shapes			This table is dependent on the Fmtyp being rimless. This can support multiple shapes	TBD
Shpid	1		The Shape id	ReferencedOpticProduct --> SpecifiedOpticProductIdentifica tion --> ID
Shpdesc	Oval		The description of the shape	ReferencedOpticProduct --> ShortDescription
Shpimage	ftp://xyz.com		The frame shape image URL to download the image	MultimediaPresentationPicture - -> DigitalImageBinaryObject

Annex B (normative)

Electronic Frame Catalogue Schema (Identification Section)

The schema supporting the catalogue can be found on the following websites:

- <http://www.edi-optique.org/standard/>
- http://www.thevisioncouncil.org/members/content_255.cfm?navID=457
- <http://www.anfao.it/>

Annex C (informative)

Electronic Frame Catalogue XML Sample (Identification Section)

```

<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file for ISO 10685-->
<ocm:CatalogueManifest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ocm="urn:edi:optique:data:standard:CatalogueManifest:1"
xmlns:oram="urn:edi:optique:data:standard:OpticReusableAggregateBusinessInformationEntity:1"
xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
optique.org/standard/edioptic/data/standard/CatalogueManifest_1p1p0.xsd">
  <ocm:CatalogueManifestDocument>
    <oram:TestIndicator>false</oram:TestIndicator>
    <oram:Description languageID="en">FRAMES SPRING 2011</oram:Description>
    <oram:VersionID>000011</oram:VersionID>
    <oram:ReleaseID>0</oram:ReleaseID>
    <oram:RequestReferenceID/>
    <oram:ProviderOpticParty>
      <oram:ID schemeID="ZZY" schemeDataURI="http://www.edi-
optique.org/standard/edioptic/codelist/standard/OpticPartyIdentificationCode-1.1.gc">ACME</oram:ID>
      <oram:Name>ACME INC</oram:Name>
      <oram:DefinedOpticTradeContact>
        <oram:PersonName>John Smith</oram:PersonName>
        <oram:TelephoneCIUniversalCommunication>
          <oram:CompleteNumber>512-999-9999</oram:CompleteNumber>
        </oram:TelephoneCIUniversalCommunication>
      </oram:DefinedOpticTradeContact>
    </oram:ProviderOpticParty>
    <oram:ReceiverOpticParty>
      <oram:ID schemeID="IRS">A873</oram:ID>
      <oram:Name>Customer 873</oram:Name>
    </oram:ReceiverOpticParty>
    <oram:PrimaryCode listID="ISO 4217 3A" listVersionID="2007-06-18">EUR</oram:PrimaryCode>
  </ocm:CatalogueManifestDocument>
  <ocm:OpticCatalogue>
    <oram:ID>1</oram:ID>
    <oram:Description languageID="en">FRAME SPRING 2009</oram:Description>
    <oram:ValidityDelimitedPeriod>
      <oram:StartDateTime>2009-04-15T09:30:47Z</oram:StartDateTime>
      <oram:EndDateTime>2009-12-15T09:30:47Z</oram:EndDateTime>
    </oram:ValidityDelimitedPeriod>
  </ocm:OpticCatalogue>

```

```

<oram:StatusCode>1</oram:StatusCode>
<oram:SupplierOpticParty>
  <oram:ID schemeID="13S">123424</oram:ID>
  <oram:Name>Supplier 123424</oram:Name>
</oram:SupplierOpticParty>
<oram:DeliveryDelimitedPeriod>
  <oram:StartDateTime>2001-12-17T09:30:47Z</oram:StartDateTime>
</oram:DeliveryDelimitedPeriod>
<oram:HistorizationStartDate>2009-01-01</oram:HistorizationStartDate>
<oram:ManufacturerOpticParty>
  <oram:ID schemeID="ZZY" schemeDataURI="http://www.edi-
optique.org/standard/edioptric/codelist/standard/OpticPartyIdentificationCode-1.1.gc">ACME</oram:ID>
  <oram:Name>ACME INC</oram:Name>
</oram:ManufacturerOpticParty>
<oram:ContainedOpticCatalogueItem>
  <oram:ID>101</oram:ID>
  <oram:ActionCode>1</oram:ActionCode>
  <oram:LastChangedDateTime>2001-12-17T09:30:47Z</oram:LastChangedDateTime>
  <oram:MultimediaPresentationPicture>
    <oram:DigitalImageBinaryObject uri="ftp://xyz.com"/>
  </oram:MultimediaPresentationPicture>
  <oram:ApplicableOpticTradeAgreement>
    <oram:ProductOrderingDelimitedPeriod>
      <oram:StartDateTime>2001-12-17T09:30:47Z</oram:StartDateTime>
      <oram:EndDateTime>2001-12-17T09:30:47Z</oram:EndDateTime>
    </oram:ProductOrderingDelimitedPeriod>
    <oram:SpecifiedOpticPriceInformation>
      <oram:AssignedOpticPrice>
        <oram:ChargeAmount>50.0</oram:ChargeAmount>
        <oram:TypeCode>AAA</oram:TypeCode>
      </oram:AssignedOpticPrice>
      <oram:AssignedOpticPrice>
        <oram:ChargeAmount>50.0</oram:ChargeAmount>
        <oram:TypeCode>AAD</oram:TypeCode>
      </oram:AssignedOpticPrice>
      <oram:ValidityDelimitedPeriod>
        <oram:StartDateTime>2001-12-17T09:30:47Z</oram:StartDateTime>
        <oram:EndDateTime>2001-12-17T09:30:47Z</oram:EndDateTime>
      </oram:ValidityDelimitedPeriod>
    </oram:SpecifiedOpticPriceInformation>
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    <oram:LastChangedDateTime>1997-07-16T19:20:30+01:00</oram:LastChangedDateTime>

```

```

</oram:ApplicableOpticTradeAgreement>
<oram:ReferencedOpticProduct>
  <oram:SpecifiedOpticProductIdentification>
    <oram:ID schemeID="GTIN">12345678901234</oram:ID>
  </oram:SpecifiedOpticProductIdentification>
  <oram:Name languageID="en">ABCD1 54 BROWN</oram:Name>
  <oram:ColorCode>2259</oram:ColorCode>
  <oram:ColorDescription>WHITE TRANSPARENT</oram:ColorDescription>
  <oram:ApplicableOpticCENRestriction>
    <oram:ID>2</oram:ID>
    <oram:CategoryID>2</oram:CategoryID>
  </oram:ApplicableOpticCENRestriction>
  <oram:DesignatedOpticProductClassification>
    <oram:ClassCode listURI="http://www.edi-
optique.org/standard/edioptic/codelist/standard/OpticClassifications_v1.0r09.xml" listAgencyName="Association EDI
Optique" listName="OpticClassifications" listVersionID="1.0r09" listSchemeURI="http://www.edi-
optique.org/standard/edioptic/data/standard/OpticClassifications_v1.0r06.xsd">FrameClass</oram:ClassCode>
    <oram:SubClassCode>RimMountSunglassClass</oram:SubClassCode>
    <!--===== Identification section =====>
    <oram:ApplicableOpticProductCharacteristic>
      <oram:ID>977</oram:ID>
      <oram:CharacteristicTypeCode>Text</oram:CharacteristicTypeCode>
      <oram:Description languageID="en">Custom code</oram:Description>
      <oram:ValueText>900311</oram:ValueText>
    </oram:ApplicableOpticProductCharacteristic>
    <oram:ApplicableOpticProductCharacteristic>
      <oram:ID>482</oram:ID>
      <oram:CharacteristicTypeCode>Measure</oram:CharacteristicTypeCode>
      <oram:Description languageID="en">Nominal horizontal lens size</oram:Description>
      <oram:ValueMeasure>50</oram:ValueMeasure>
    </oram:ApplicableOpticProductCharacteristic>
    <oram:ApplicableOpticProductCharacteristic>
      <oram:ID>518</oram:ID>
      <oram:CharacteristicTypeCode>Measure</oram:CharacteristicTypeCode>
      <oram:Description languageID="en">Nominal distance between
lenses</oram:Description>
      <oram:ValueMeasure>16</oram:ValueMeasure>
    </oram:ApplicableOpticProductCharacteristic>
    <oram:ApplicableOpticProductCharacteristic>
      <oram:ID>485</oram:ID>
      <oram:CharacteristicTypeCode>Measure</oram:CharacteristicTypeCode>
      <oram:Description languageID="en">Nominal overall length of side</oram:Description>
      <oram:ValueMeasure>135</oram:ValueMeasure>

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</oram:ApplicableOpticProductCharacteristic>
<!--===== Commercial section =====>
<oram:ApplicableOpticProductCharacteristic>
    <oram:ID>479</oram:ID>
    <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Type of user code</oram:Description>
    <oram:ValueCode>B</oram:ValueCode>
</oram:ApplicableOpticProductCharacteristic>
<oram:ApplicableOpticProductCharacteristic>
    <oram:ID>978</oram:ID>
    <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Type of use code</oram:Description>
    <oram:ValueCode>A</oram:ValueCode>
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<oram:ApplicableOpticProductCharacteristic>
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    <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Main material code</oram:Description>
    <oram:ValueCode>A</oram:ValueCode>
</oram:ApplicableOpticProductCharacteristic>
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    <oram:ID>1028</oram:ID>
    <oram:CharacteristicTypeCode>Indicator</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Joint spring</oram:Description>
    <oram:ValueIndicator>true</oram:ValueIndicator>
</oram:ApplicableOpticProductCharacteristic>
<oram:ApplicableOpticProductCharacteristic>
    <oram:ID>1029</oram:ID>
    <oram:CharacteristicTypeCode>Text</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Additional specifications</oram:Description>
    <oram:ValueText>Twinned pad</oram:ValueText>
</oram:ApplicableOpticProductCharacteristic>
<oram:ApplicableOpticProductCharacteristic>
    <oram:ID>988</oram:ID>
    <oram:CharacteristicTypeCode>Measure</oram:CharacteristicTypeCode>
    <oram:Description languageID="en">Lens base curve</oram:Description>
    <oram:ValueMeasure>10</oram:ValueMeasure>
</oram:ApplicableOpticProductCharacteristic>
<oram:ApplicableOpticProductCharacteristic>
    <oram:ID>993</oram:ID>
    <oram:CharacteristicTypeCode>Text</oram:CharacteristicTypeCode>

```

```

        <oram:Description languageID="en">Lens description including colours and
properties</oram:Description>
        <oram:ValueText>Brown</oram:ValueText>
    </oram:ApplicableOpticProductCharacteristic>
    <oram:ApplicableOpticProductCharacteristic>
        <oram:ID>1017</oram:ID>
        <oram:CharacteristicTypeCode>Code</oram:CharacteristicTypeCode>
        <oram:Description languageID="en">Filtration type of the lens</oram:Description>
        <oram:ValueCode>A</oram:ValueCode>
    </oram:ApplicableOpticProductCharacteristic>
</oram:DesignatedOpticProductClassification>
<!--===== Commercial section =====>
<oram:BrandID>UNK</oram:BrandID>
<oram:BrandName>UNK BRAND</oram:BrandName>
<oram:SubBrandID>1</oram:SubBrandID>
<oram:SubBrandName>OPTICAL</oram:SubBrandName>
<oram:ModelName>ABCD1</oram:ModelName>
</oram:ReferencedOpticProduct>
</oram:ContainedOpticCatalogueItem>
</ocm:OpticCatalogue>
</ocm:CatalogueManifest>

```

Annex D

(informative)

Bibliography

ANSI Z80.3-2009 Nonprescription Sunglasses and Fashion Eyewear - Requirements

EN 1836 Personal eye protection. Sunglasses and sunglare filters for general use and filters for direct observation of the sun

AS/NZS 1067 Sunglass and fashion spectacles